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EXIN EPI Certified Data Centre Specialist Sample Questions (Q47-Q52):

NEW QUESTION # 47

You are allowed to use a calculator for this question. A battery bank is rated at a total capacity of 600 Ah. Calculate how much charging current the rectifier should be able to supply as charging current.

- A. 60 Amperes
- B. 12 Amperes
- C. 30 Amperes
- D. 80 Amperes

Answer: C

Explanation:

To determine the charging current for a battery bank, a general rule of thumb is that the charging current should be 5% of the total battery capacity. For a battery rated at 600 Ah, this calculation would be:

$600 \text{ Ah} \times 0.05 = 30 \text{ Amperes}$ This ensures the battery is charged efficiently without overloading the rectifier or risking battery damage.

Detailed Explanation:

Battery charging current is typically set as a percentage of the battery's capacity to balance effective charging with longevity and safety. A 5% charging rate is standard for lead-acid batteries, which would be 30 Amperes for a 600 Ah battery bank.

EPI Data Center Specialist References:

EPI standards recommend calculating charging currents based on a percentage of the battery capacity to ensure safety and efficiency, aligning with best practices for battery management in data centers.

NEW QUESTION # 48

The humidity in the computer room has changed from about 50% down to 35% Relative Humidity (RH). What influence does this have on Electrostatic Discharge (ESD)?

- A. Relative humidity has no influence on ESD
- B. ESD levels will go down
- C. ESD levels will go up
- D. No influence as long as the temperature is at approximately 20°C/77°F

Answer: C

Explanation:

As relative humidity decreases, Electrostatic Discharge (ESD) risks increase. Lower humidity levels reduce the amount of moisture in the air, which normally helps dissipate static charges. When the humidity drops from 50% to 35%, the likelihood of static electricity accumulating on surfaces rises, leading to a higher potential for ESD incidents that could damage sensitive IT equipment.

Detailed Explanation:

ESD events are more common in dry environments because there is less atmospheric moisture to neutralize electrical charges.

Maintaining relative humidity above 40% helps minimize the risk of ESD, which is why data centers often control humidity levels tightly to protect equipment from static discharge that could cause hardware failures or data loss.

EPI Data Center Specialist References:

EPI data center best practices stress the importance of maintaining stable humidity levels to prevent ESD, particularly in computer rooms. Recommended humidity ranges are typically above 40% to prevent conditions that would foster static buildup.

NEW QUESTION # 49

The temperature in the computer room is increased from 18 °C (64 °F) to 27 °C (81 °F). What is the impact on the amount of gas required to suppress a fire assuming a halocarbon agent?

- A. The amount of gas required will not change
- B. The amount of gas required will be less
- C. The amount of gas required will be higher
- D. The change cannot be determined without knowing the change in humidity as well

Answer: C

Explanation:

Design concentrations for halocarbons (e.g., FM-200/HFC-227ea, Novec 1230) increase with ambient temperature; higher temperature # higher minimum extinguishing concentration # more agent mass.

References: NFPA 2001 (Clean Agent Fire Extinguishing Systems) §5.4 & Annex A (temperature correction for halocarbons); ISO 14520-1 §5.4.

NEW QUESTION # 50

A data center scores Rated-3 in mechanical, Rated-4 in electrical, and Rated-2 in architectural. What is the overall Rating of this data center when the Rating is based on the ANSI/TIA-942?

- A. Rated-4 since electrical is more important than mechanical and architectural
- B. Rated-4 since that is the highest rating received
- C. Rated-2 since that is the lowest rating received
- D. Depends on the Rating scored in telecommunications

Answer: C

Explanation:

According to ANSI/TIA-942 standards, the overall data center rating is determined by the lowest rating among all evaluated categories. Therefore, if a data center is rated 2 in architectural, despite being rated higher in mechanical and electrical, the overall rating is Rated-2. This approach ensures that all aspects meet a minimum standard and prevents a higher rating if any critical area does not comply.

Detailed Explanation:

ANSI/TIA-942 evaluates data centers across several areas, including mechanical, electrical, architectural, and telecommunications. The overall rating reflects the lowest rated category, ensuring that no aspect of the data center's design or operation falls below the specified level. Thus, in this case, the architectural rating of 2 dictates the final rating, ensuring a comprehensive and balanced assessment of reliability and resilience across all aspects.

EPI Data Center Specialist References:

EPI Data Center Specialist training aligns with ANSI/TIA-942, stating that the final rating must reflect the lowest score to ensure comprehensive reliability across all critical infrastructure categories. This avoids overstating the data center's resilience and ensures uniform standards across areas.

NEW QUESTION # 51

What indicates the overcurrent of a fuse or breaker?

- A. The current at which the device will trip
- B. The maximum electrical current which can flow in a particular electrical system under short-circuit conditions; it is determined by the voltage and impedance of the supply system
- C. The maximum inrush current an overcurrent protection device can handle within a defined period of time
- D. The current that a fuse or breaker is able to interrupt without being destroyed or causing an electrically damaging arc

Answer: A

Explanation:

"Overcurrent" for protective devices is the condition above the device's rated/trip value that causes operation (tripping/melting).

* A = inrush tolerance, not the definition of overcurrent.

* B = prospective short-circuit current (Ik).

References: IEC 60947-2 (LV circuit breakers, defn 2.5.13 Overcurrent; 2.3.3 Rated short-circuit breaking capacity), IEC 60269 (fuses).

NEW QUESTION # 52

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